Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-26-50** **Date: 05-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No 07, Byatarayanapura.
Agency	:	Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.94	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-26-50** **Date: 31-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No 07, Byatarayanapura.
Agency	:	Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-07-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-26-50** **Date: 05-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No 07, Byatarayanapura.
Agency	:	Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-26-50** **Date: 05-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.22	_

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE (Civil)

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-26-50** **Date: 04-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No 07, Byatarayanapura.
Agency	:	Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.
Customer Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-26-50** **Date: 04-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Bangalore.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-26-50** **Date: 04-07-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-07-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-07-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-26-50** **Date: 04-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-11-26-50** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No 07, Byatarayanapura.
Agency	:	Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	12-07-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	152	198	12189	31.854	2613.3	2662.7	Not less than 1800Kg/m^3
2	403	152	202	12374	33.494	2706.8		
3	400	149	202	12039	32.121	2668.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.23	Shall not be more than 10% by mass
2	33.57	32.16	4.22		
3	33.44	32.24	3.59		

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Lab ID : **CP-2019-11-26-50** **Date: 15-07-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	150	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	399	150	202	
3	402	151	200	
4	401	151	202	
5	400	153	203	
6	402	149	199	
7	403	149	202	
8	401	150	199	
9	404	152	201	
10	404	153	200	
11	404	152	200	
12	402	152	200	
13	401	152	199	
14	401	152	199	
15	402	152	199	
16	401	152	199	
17	404	150	202	
18	399	152	203	
19	402	149	202	
20	402	149	201	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2019-11-26-50** **Date: 15-07-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	404	150	60582	285.2	4.7	4.5
2	399	150	59861	256.8	4.3	
3	402	151	60723	288.6	4.8	
4	401	151	60509	253.4	4.2	
5	400	153	61214	261.9	4.3	
6	402	149	59922	277.2	4.6	
7	403	149	60082	264.0	4.4	
8	401	150	60156	272.4	4.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-11-26-50**	**Date: 05-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency Grants in Ward No 07, Byatarayanapura.	
Agency	:	Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.	
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-07-19	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	04-07-19	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Technical Manager

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AE(WZ)

Assistant Executive Engineer
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 16/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	16/07/2019	151.99 X 150.63 X 149.67	22894	**8.544**	434.5	19.0	18.7
2	RCC	M20	09/07/2019	16/07/2019	151.77 X 150.29 X 151.50	22809	**8.424**	412.2	18.1	
3	RCC	M20	09/07/2019	16/07/2019	149.24 X 151.09 X 151.55	22548	**8.033**	427.1	18.9	

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Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 06/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	06/08/2019	149.62 X 151.63 X 151.84	22686	**8.134**	542.9	23.9	23.4
2	RCC	M20	09/07/2019	06/08/2019	151.34 X 149.25 X 149.52	22589	**8.640**	506.7	22.4	
3	RCC	M20	09/07/2019	06/08/2019	151.25 X 149.70 X 151.07	22643	**8.044**	538.6	23.8	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(WO)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig. Date BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-11-26-50** **Date: 29/07/2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No 07, Byatarayanapura.
Agency	:	Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-07-19
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	22/07/2019	29/07/2019	151.56 X 149.15 X 150.76	22605	**8.544**	426.8	18.9	18.5
2	Roof Concrete	M20	22/07/2019	29/07/2019	149.60 X 151.40 X 149.98	22650	**8.424**	413.5	18.3	
3	Roof Concrete	M20	22/07/2019	29/07/2019	150.78 X 150.45 X 150.79	22685	**8.033**	416.6	18.4	

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R RUDRAPRASAD
Authorized Signatory
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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, BBMP,
Bangalore.

CIVIL PRO BANGALORE Sig. Date

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 19/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	22/07/2019	19/08/2019	150.90 X 149.82 X 150.21	22608	**8.134**	524.1	23.2	23.0
2	Lintel Concrete	M20	22/07/2019	19/08/2019	151.28 X 150.50 X 150.62	22767	**8.640**	510.1	22.4	
3	Lintel Concrete	M20	22/07/2019	19/08/2019	151.55 X 151.93 X 151.46	23026	**8.044**	537.1	23.3	

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R RUDRAPRASAD
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 22/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Customer ID : Chajja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	15/07/2019	22/07/2019	149.46 X 149.09 X 151.97	22282	**8.544**	422.4	19.0	
2	Chajja Concrete	M20	15/07/2019	22/07/2019	151.29 X 151.55 X 150.39	22927	**8.424**	423.4	18.5	18.7
3	Chajja Concrete	M20	15/07/2019	22/07/2019	151.46 X 150.71 X 151.21	22825	**8.033**	423.3	18.5	

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Authorized Signatory
Technical Manager

CIVIL PRO Sig. Date. BANGALORE

AE(HQ)

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Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 13/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Customer ID : Chajja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	15/07/2019	13/08/2019	151.56 X 150.29 X 151.04	22779	**8.134**	537.5	23.6	23.1
2	Chajja Concrete	M20	15/07/2019	13/08/2019	149.14 X 149.24 X 151.52	22256	**8.640**	498.4	22.4	
3	Chajja Concrete	M20	15/07/2019	13/08/2019	149.25 X 150.21 X 149.27	22418	**8.044**	519.8	23.2	

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R RUDRAPRASAD
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AE(NS)

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 22/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	15/07/2019	22/07/2019	151.50 X 149.32 X 149.16	22622	**8.544**	417.4	18.5	18.5
2	Lintel Concrete	M20	15/07/2019	22/07/2019	151.63 X 149.53 X 149.39	22673	**8.424**	412.0	18.2	
3	Lintel Concrete	M20	15/07/2019	22/07/2019	151.33 X 150.14 X 149.48	22721	**8.033**	427.8	18.8	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

AE(Lod)

Assistant Executive Engineer, Kodigehalli Sub Division, Vidyaranyapura Zone, B.B.M.P, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 13/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	15/07/2019	13/08/2019	150.55 X 151.35 X 149.42	22785	**8.134**	536.7	23.6	23.2
2	Lintel Concrete	M20	15/07/2019	13/08/2019	149.40 X 151.72 X 150.22	22666	**8.640**	512.3	22.6	
3	Lintel Concrete	M20	15/07/2019	13/08/2019	151.77 X 151.00 X 151.34	22917	**8.044**	539.2	23.5	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Ashwly. N.D
AE (Tech)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 29/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	22/07/2019	29/07/2019	149.73 X 150.34 X 151.84	22511	**8.544**	414.8	18.4	18.4
2	Roof Concrete	M20	22/07/2019	29/07/2019	149.35 X 150.99 X 151.48	22550	**8.424**	406.3	18.0	
3	Roof Concrete	M20	22/07/2019	29/07/2019	149.68 X 149.36 X 149.80	22356	**8.033**	420.7	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-26-50** **Date: 19/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No 07, Byatarayanapura.

Agency : Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	22/07/2019	19/08/2019	150.43 X 150.64 X 149.47	22661	**8.134**	539.7	23.8	23.3
2	Roof Concrete	M20	22/07/2019	19/08/2019	151.96 X 151.50 X 149.75	23022	**8.640**	524.1	22.8	
3	Roof Concrete	M20	22/07/2019	19/08/2019	151.07 X 149.39 X 151.55	22568	**8.044**	524.6	23.2	

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R RUDRAPRASAD
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Technical Manager

Page 1/1
****End of Report****

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2019-11-26-50** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No 07, Byatarayanapura.
Agency	:	Sri.Muniraju B.M (SS Construction), # 432/A, 1ST Main, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	16-07-19

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	12.04	12.01	12.058	12.04
2	300	300	300	300	12.04	12.074	12.07	12.01
3	300	300	300	300	12.03	12.05	12.036	12.03
4	300	300	300	300	12.06	12.05	12.058	12.06
5	300	300	300	300	12.08	12.06	12.05	12.08
6	300	300	300	300	12.03	12.07	12.07	12.07
7	300	300	300	300	12.08	12.05	12.08	12.07
8	300	300	300	300	12.02	12.05	12.04	12.05
9	300	300	300	300	12.04	12.04	12.02	12.04
10	300	300	300	300	12.04	12.01	12.05	12.04
Average	**300**		**300**		**12.05**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	12.04	14.8	14.66
2	300	300	12.06	14.2	
3	300	300	12.02	14.9	
4	300	300	12.06	14.8	
5	300	300	12.05	14.6	

Note:

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AE(Civil)

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro BANGALORE Sig..... Date.....

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